

NAD

## L 70 DVD/CD Surround Sound Receiver



- 5 x 45W Simultaneous Continuous Output Power into 8 ohms • 2 x 60W in Stereo mode
- 82W IHF Dynamic Power into 8 ohms • Dolby Digital, DTS, ProLogic II - Music - Movie - Emulation , EARS and Stereo Enhanced Surround Modes • Plays DVD-Video, CD, CD-R, CD-RW, VCD/SVCD• MP-3 decoder integrated • Full-size separate component performance • Crystal Sigma-Delta ADCs and DACs with 96kHz/24 bit resolution • Subwoofer Output • Satellite and VCR Inputs, 5.1 Input for future surround mode upgrades • 2 Digital Inputs: 1 RCA; 1 TOS Link • 2 S-Video Inputs and 1 S-Video output • VCR & TV Outputs including Component (120V DVD only) or SCART (230V DVD only) • 1 TOS Link Digital Output • MPEG-2 decoder • PAL/NTSC compatible (230V version only) • Auto switch from PCM to Bitstream • Audiophile quality DACs • RDS Tuner (RDS PS & RDS RT) • 60 Presets for AM and FM • Component Video Output • SCART with RGB and Composite Video Output (230V version only) • All RCA sockets gold-plated • 12V Trigger Output • HTR-L70 Learning System Remote with illuminated keys

With the introduction of the L 70 DVD/CD Surround Sound Receiver, NAD now offers the level of performance associated with its highly acclaimed full-size separates in an elegant, compact design. Designed to complement today's advanced video displays, its gleaming Titanium finish and elegant proportions make a sophisticated design statement. And unlike most other "all-in-one" systems, the NAD performs like an award winning NAD separate component. We have not made any performance compromises in our quest for convenience and style.

## The Command Center for an Advanced Surround Sound System

By combining the DVD/CD player and digital surround sound receiver in one elegant package, one needs only to add the TV monitor and surround sound speaker package to the NAD L 70 to have theater quality sound in any room of the home. The L 70 is ideal for apartment and condominium dwellers, and makes for an outstanding bedroom or recreation room system. The supplied HTR-L70 Remote can operate your TV, VCR, satellite or cable tuner, and almost any other IR remote controlled device. The logical layout and illuminated keys make operating your AV system straightforward and enjoyable, and the HTR-L70, with its ability to learn the remote commands of up to eight different devices, eliminates the clutter of multiple remote handsets. Unlike the "Home Theater in a Box" systems that include speakers (usually of questionable quality), the NAD L 70 allows complete freedom to choose speakers that fit your decor and suite your taste in sound.

## Performance

The NAD engineers concentrated only on the truly important parts of a surround sound system. As the new surround sound formats allow for the same wide bandwidth and large dynamic range for the rear channels as for the front channels, all five channels are capable of putting out an equal and substantial amount of power. As usual with NAD, the L 70

uses discrete output stages only including the surround channels. The benefits of this approach have been proven over the years in many acclaimed NAD amplifiers and receivers. Most products in this category are using digital IC amplifier modules, which allow for a very slim-line design, but cannot meet even the most basic hi-fi specs for noise and distortion. What's more, these amplifiers can only put out a very modest amount of power, far too little for a satisfying cinematic or musical performance. And to make matters even worse, these digital IC amplifiers used by our competitors cannot accurately drive real world speakers due to their poor tolerance of low impedance loads and almost total lack of dynamic power.

As one would expect from NAD, only high quality components have been used, such as high resolution ADCs (Analogue-to-Digital Converter) and DACs (Digital-to-Analogue Converter) from renowned manufacturer Cirrus Logic, to obtain the best possible performance.

### **Flexibility**

Even though the L 70 DVD/CD Surround Sound Receiver may be far more compact than a separate DVD Player and Receiver of comparable performance, it still is very flexible. Three additional video sources (one front panel accessible - perfect for cameras and game consoles) and a 6 channel audio source can be connected (with the built-in tuner and DVD/CD player that potentially gives you access to six sources) of which two also offer S-Video inputs. Besides the Composite Monitor output, the L 70 also has an S-Video and Component/SCART RGB output as well. Two digital inputs (one optical, one coaxial) are provided, and, for easy transferring to a CD recorder or other digital recording device, the L 70 also sports an optical digital output. Rather than using spring clips for loudspeaker cable connection, as usually found on compact systems, the L 70 offers high quality loudspeaker binding posts, more associated with top-of-the-range full-size AV receivers. A preamp-level output for connection to a powered subwoofer is provided as well.

## Advanced Features

The L 70 will automatically recognise DTS or Dolby Digital and will switch accordingly. Besides these modes, Stereo Enhanced (all channel stereo), ProLogic II, and EARS (an NAD exclusive) are available, all aimed at reproducing 2 channel stereo music in a realistic 5.1 surround mode, creating either a natural ambience, or an all out party sound. In all cases the sound is pure and undistorted, as opposed to those fuzzy "boingy" sound effects with lofty sounding names like "stadium" and "cathedral".

## DVD and CD Features and Performance

Besides superb DVD picture quality, the NAD L 70 also offers a wide range of facilities such as Multi-Angle; Multi-Sound; Multi-Subtitle; Frame; Zoom and Repeat. All these facilities can be easily accessed with the supplied remote control. Through the extensive yet intuitive On-Screen-Display you can change the various settings and parameters for optimum performance.

## Specifications - NAD L 70

### Amplifier Section

Power output Stereo Mode	2 x 60W (18dBW)
<b>Simultaneous Continuous Output Power into 8 ohms</b>	<b>5 x 45W (16.53dBW)</b>
(Min. power per channel, 20Hz - 20kHz with no more than 0.08% THD rated distortion)	
IHF dynamic power; 8 ohms	2 x 82W (19dBW)
Total harmonic distortion at rated power	0.08%
Damping factor 8 ohms	> 60
Frequency response	20Hz to 20kHz ± 0.5dB
Frequency response	-3dB 10Hz to 60kHz
Signal/noise ratio; ref rated power / 8 ohms	99dB
Signal/noise ratio; ref 1W / 8 ohms	85dB
Remote Control	HTR-L70

### FM Tuner Section

50dB Quieting Sensitivity; FM Mono	-16 dBf
50dB Quieting Sensitivity; FM Stereo	-36.1 dBf
Image Rejection	> 50dB
Harmonic Distortion; FM Mono	0.2%
Harmonic Distortion; FM Stereo	0.5%
Signal/noise; Mono	69 dB
Signal/noise; Stereo	64.2dB
Channel Separation at 1kHz	40dB
Frequency response; ± 1.5dB	30Hz - 15kHz

### AM Tuner Section

Usable Sensitivity	55dBu
Selectivity	25dB
Image Rejection	35dB
IF Rejection	50dB
Signal/Noise Ratio	55dB
Harmonic Distortion	0.8%

### Audio

Frequency Response DVD Audio	48kHz sampling 10Hz - 22kHz
Frequency Response CD Audio	96kHz sampling 4Hz - 44kHz
Signal to noise ratio, A-weighted	10Hz - 22kHz
THD (at 0dB, 1kHz)	> 85dB
Wow and Flutter	0.008%
Channel separation CD	Quartz accuracy
Dynamic range	86dB
	103dB

### DVD Video

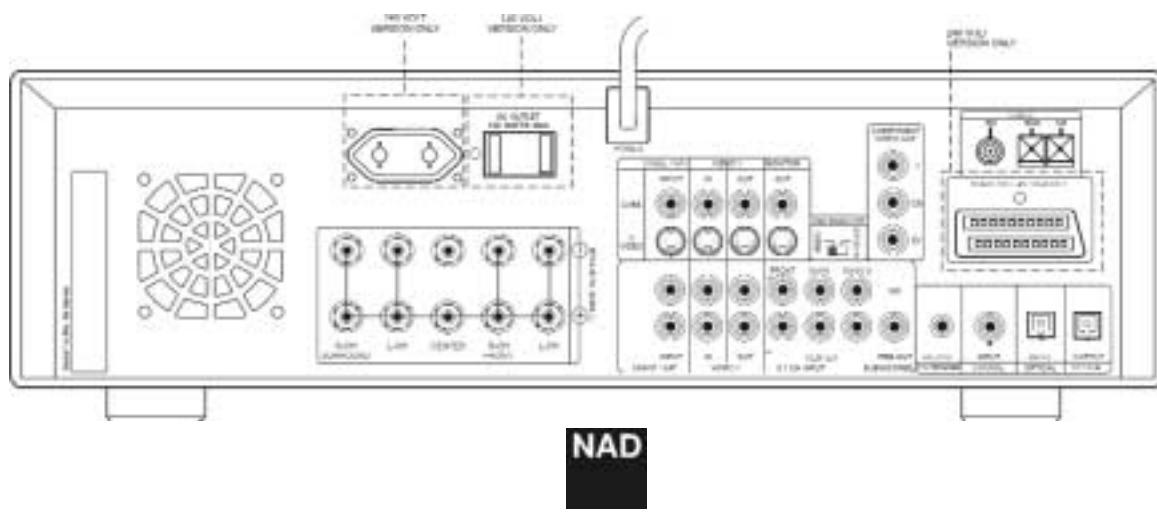
Signal to Noise	62dB
Signal system	PAL/NTSC

### Inputs

Digital coaxial - PCM, DTS, AC3	RCA x 1
Digital optical - PCM, DTS, AC3	TOS Link x 1
<b>Outputs</b>	
Digital optical - PCM, DTS, AC3	TOS Link x 1
Composite Video	RCA x 2
S-Video	Y/C 4 pin x 2
Component Video	Yes (120V) SCART w/RGB (230V)
12V Trigger	RCA x 1
Remote Control	HTR - L70

### Physical Specifications

Dimensions(W xH x D)	17 <sup>1</sup> / <sub>8</sub> x 4 <sup>3</sup> / <sub>4</sub> x 13 <sup>"</sup> (435 x 121 x 330 mm)
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Printed in Canada. 07/02.